NITRATE-N + NITRITE-N IN WASTEWATER AND DRINKING WATER
SYSTEA EASY (1 REAGENT) REVISION 1 (2/4/2009)

Facility Name:_____VELAP ID_____

Assessor Name:_____ Analyst Name:_____ Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
1. Are samples checked for residual chlorine and is it removed using sodium thiosulfate if present?	*Systea Methodology (SM) SM* 4.0				
2. Are working standards prepared daily?	*SM* 7.2.4				
3. Is each analytical batch (of 10 or fewer samples) accompanied by a blank, LCS, MS and MSD?	*SMS* 9.1.7				
4. Is the MDL less than or equal to 0.011mg/L (40CFR 136, Appendix B)?	*SM* 9.2.1				
5. Are a minimum of 10% of all samples spiked in duplicate?	*SM* 9.3				
6. Are compliance samples spiked at the regulatory limit or 1-5x higher than the background concentration of the sample, whichever is higher [Non-compliance samples may be spiked at the LCS concentration or 1-5x higher than the background concentration of the sample, whichever is higher]?	*SM* 9.3.1.1 and 2				
7. Does the calibration curve include a minimum of 4 standards and a blank with a correlation coefficient greater than 0.995 (*should*)?	*SM* 10.2				
8. Were the spike recoveries within ±10% and the RPD of the duplicates less than 20% (the latter is *should*)?	*SM* 9.3.4 and 9.3.7				
9. Are method precision and accuracy records maintained and updated on a regulary basis (*should*)?	*SM* 9.3.8				
10. Is the laboratory reagent water blank subjected to the exact same procedural steps as the samples and evaluated to be less than the MDL?	*SM* 9.4.1 and 2				
11. Is the calibration verified using a calibration standard at the beginning and end of each analytical batch and after every 14 or fewer measurements?	*SM* 9.5				
12. Is the calibration standard verified to be within ±10% of the true value? (The lab *should* maintain graphic representation [e.g. control charts] of continued lab performance and develop a statement of lab data quality)	*SM* 9.5 and 9.6.3				

NITRATE-N + NITRITE-N IN WASTEWATER AND DRINKING WATER
SYSTEA EASY (1 REAGENT) REVISION 1 (2/4/2009)

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
13. Were results reported to three significant figures for concentrations above the MDL (Do not report results below the MDL unless required by permit)?	*SM* 12.0				
14. For nitrate in drinking water, are samples preserved at 4°C and analyzed within 48 hours of collection unless the sample is chlorinated? If chlorinated, analyze within 14 days.	40CFR141.23.k(2) *(SM* 8.1.1)				
15. For nitrite in drinking water, are samples preserved at 4°C and analyzed within 48 hours?	40CFR141.23.k(2) *(SM* 8.1.2)				
16. For nitrate + nitrite in drinking water, are samples preserved by acidifying to pH<2 with sulfuric acid and analyzed within 28 days?	40CFR141.23.k(2) *(SM* 8.1.3)				
17. For nitrate in nonpotable water, are samples preserved at ≤6ºC and analyzed within 48 hours?	40CFR136.3 Table 1I *(SM* 8.2.1)				
18. For nitrite in nonpotable water, are samples preserved at ≤6ºC and analyzed within 48 hours?	40CFR136.3 Table 1I *(SM* 8.2.1)				
19. For nitrate + nitrite in nonpotable water, are samples acidified to pH<2 with sulfuric acid, preserved at ≤6ºC, and analyzed within 28 days?	40CFR136.3 Table 1I *(SM* 8.2)				

Notes/Comments: